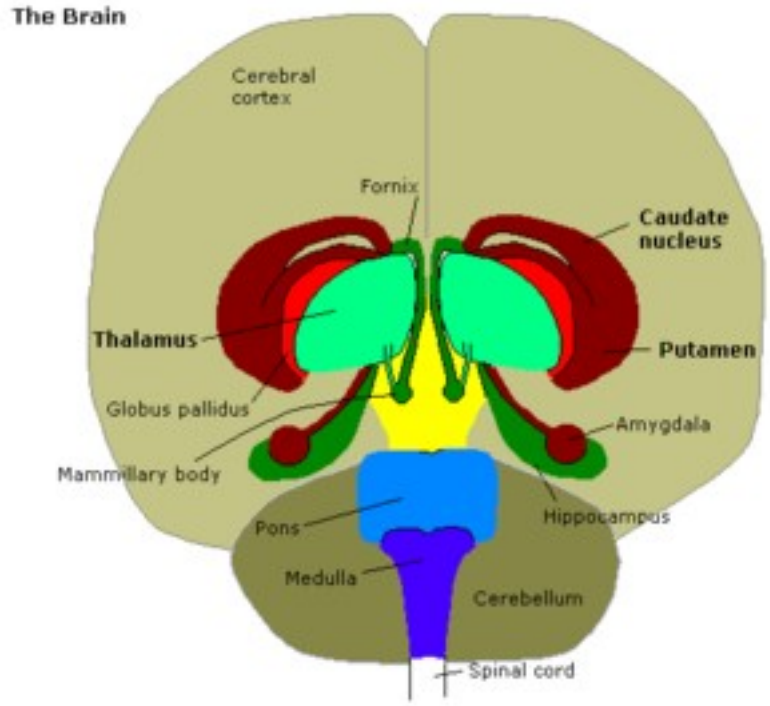
Awens to All:

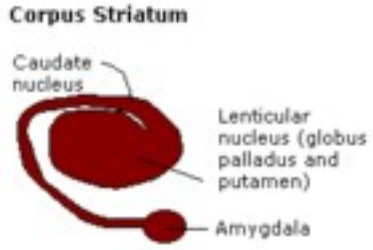
I have been wondering exactly what part of the Brain that causes People to Act Unsocially, Violent and Aggressive between each other for a few years now and I finally had time to sit down and do some Internet Research into it.

It seems that it is the Amygdala part of the Brain that causes such Antisocial Behavior:

http://en.wikipedia.org/wiki/Amygdala




The brain as viewed from the underside and front. The thalamus and Corpus Striatum (Putamen, caudate and amygdala) have been splayed out to show detail.

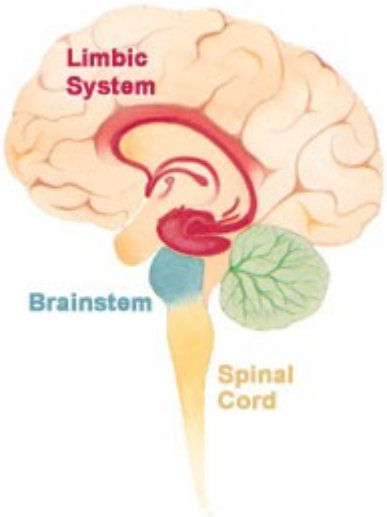



Shown in research to perform a primary role in the processing and memory of Emotional Reactions, the Amygdalae are considered part of the Limbic System.

As early as 1888, rhesus monkeys with a lLsioned Temporal Cortex (including the amygdala) were observed to have significant Social and Emotional Deficits. Monkey mothers who had Amygdala Damage showed a reduction in Maternal Behaviors towards their Infants, often Physically Abusing or Neglecting them. Consensus of data shows the Amygdala has a Substantial role in Mental States, and is related to many Psychological Disorders. A 2003 study found that Adult and Adolescent Bipolar Patients tended to have considerably Smaller Amygdala Volumes and somewhat Smaller Hippocampal Volumes. Many studies have focused on the connections between the Amygdala and Autism. Additional Studies have shown a link between the Amygdala and Schizophrenia, noting that

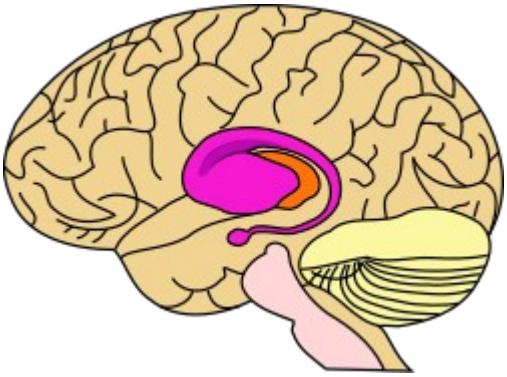
the Right Amygdala is significantly larger than the left in Schizophrenic Patients. The Amygdala processes reactions to Personal Space Violations.

The afforementioned Limbic System looks like this:



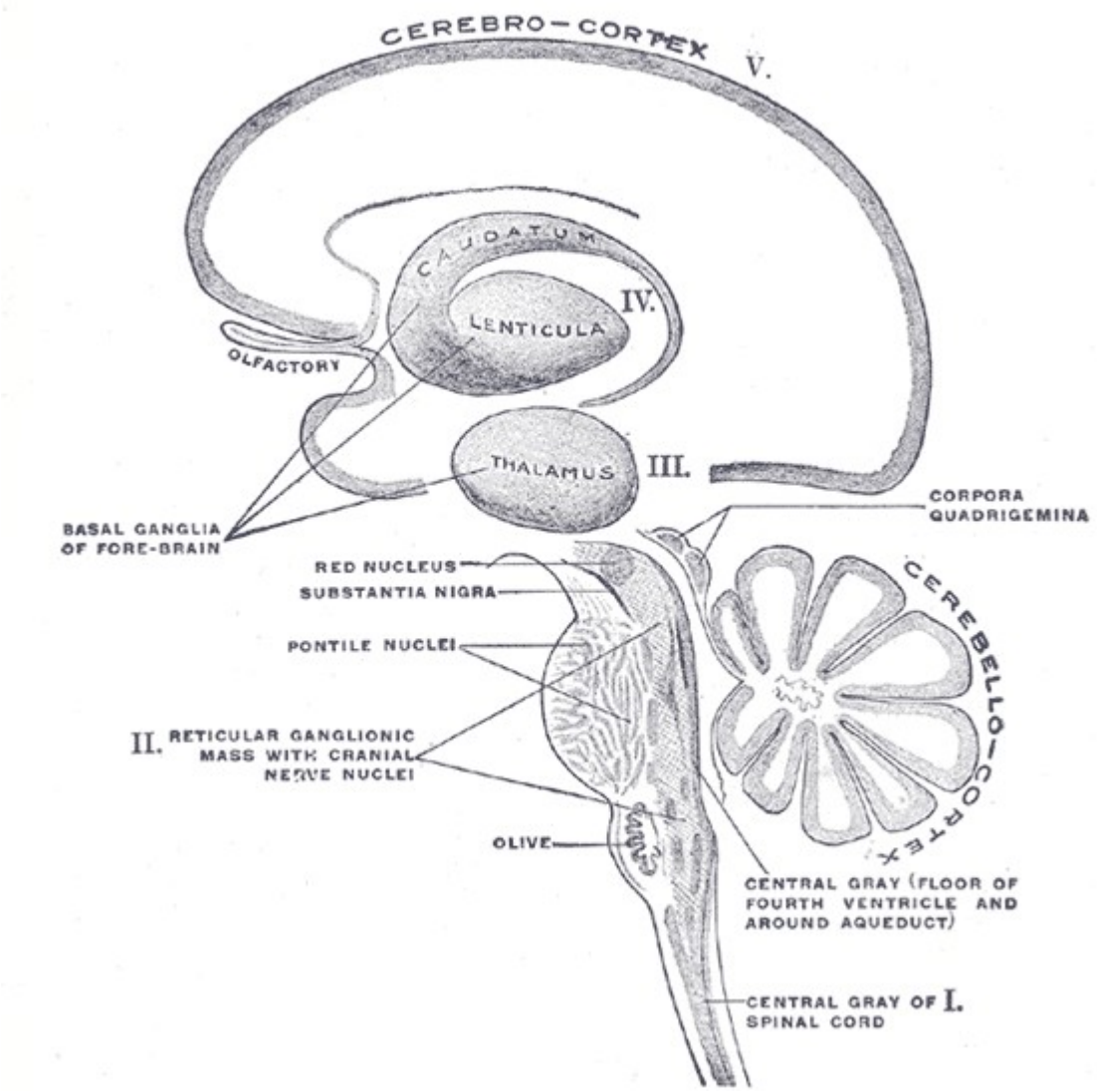

The Limbic System supports a variety of functions including Emotion, Behavior, Long Term Memory, and Olfaction. The Limbic System operates by influencing the Endocrine System and the Autonomic Nervous System. It is highly interconnected with the Nucleus Accumbens, the Brain's Pleasure Center, which plays a role in Sexual Arousal and the "High" derived from certain Recreational Drugs. To cure Severe Emotional Disorders, this connection was sometimes Surgically Severed, a procedure of Psychosurgery, called a Prefrontal Lobotomy. Patients who undergo this procedure often became Passive and Lack all Motivation.

I also found that both the Amygdala and Limbic Systems of the Brain as parts of the Straitum Part of the Brain:



This is a Heavily Condensed part of the Brain that is Whitish in appearance is best known for its role in the Planning and Modulation of Movement Pathways but is also involved in a variety of other Cognitive Processes involving Executive function. In humans the Striatum is activated by Stimuli associated with Reward, but also by Aversive, Novel, Unexpected or Intense Stimuli, and Cues associated with such events.

After processing their Functions, the Straitum then passes it signals onto the Substantia Nigra for Final Processing before being acted upon.




The Substantia Nigra is a Brain Structure located in the Mesencephalon (midbrain) that plays an important role in Reward, Addiction, and Movement. Substantia Nigra is Latin for "Black Substance", as parts of the Substantia Nigra appear darker than neighboring areas due to high levels of Melanin in dopaminergic Neurons. Many of the Substantia Nigra's effects are Mediated through the Striatum.

So when someone Behaves Antisocially, Violently, or Aggressively, it is caused by Negative Brain Functions of the Amygdala, Limbic, Striatum and then through the Substantia Nigra areas of the Brain that does it.

And is also from those areas of the Brain that we get our Misguided Moral Errors of Judgement such as when someone thought up and wrote down the Philosophical Guidelines of Genesis 1, Verses 26 to 31.

TheDruid-3X3